Manufacturer: __________________________ Year: ________ DOT Spec: ________  
Co.#: __________ Serial #: ________________________ Test Date: ___/___/_____

Cargo Tank Insulated:  □ YES □ NO  Lined: □ YES □ NO  

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PASSED</th>
<th>FAILED</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>Tank Shell</td>
<td></td>
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<td>Tank Heads</td>
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<td>Piping</td>
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<td>Valves</td>
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<td>Valve Gaskets</td>
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<td>Manhole Locking Devices</td>
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<td>Manhole Gaskets</td>
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<tr>
<td>Emergency Devices &amp; Valves</td>
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<td>Tightness of Bolts &amp; Devices</td>
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<td>Remote Closure Devices</td>
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<td>Self-Closing Stop Valves</td>
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<tr>
<td>Fusible Elements</td>
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<td>Frame &amp; Barrel Supports</td>
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<tr>
<td>Ring Stiffeners</td>
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<tr>
<td>Attachment of Appurtenances</td>
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<tr>
<td>Upper Coupler Assembly</td>
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<tr>
<td>Suspension</td>
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<tr>
<td>Pressure Relief Valves</td>
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<tr>
<td>Metal Certification Plate</td>
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<td>Required Markings</td>
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</table>

Upper Coupler Dropped and Inspected: □ YES □ NO  
Re-closing pressure relief valves removed and tested: □ YES □ NO

Cargo tank returned to service: ___/___/____  Cargo tank withdrawn from service: ___/___/____

Inspector’s Name: ___________________________ CT#: __________

Inspector’s Address: __________________________

I CERTIFY THAT THE INSPECTION NOTED ON THIS FORM WAS PERFORMED BY ME AND ALL REQUIRED ENTRIES WERE MADE CONCERNING OBSERVATIONS MADE DURING THIS INSPECTION.

Inspector’s Signature ___________________________ Date ______________________

Owner or Authorized Representative’s Signature ___________________________ Date ______________________

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(d) External visual inspection and testing.

(1) Where insulation precludes external visual inspection, the cargo tank, other than an MC 330 or MC 331 cargo tank, must be given a visual internal inspection in accordance with 180.407(e). The tank must be hydrostatically or pneumatically tested in accordance with § 180.407(c) and (g) where:

   (i) Visual inspection is precluded by internal lining or coating, or
   (ii) Where insulation precludes a complete external visual inspection as required by 407(d)(2) through (d)(6), the cargo tank also must be given an internal visual inspection in accordance with 407(e). If external visual inspection is precluded because any part of the cargo tank wall is externally lined, coated, or designed to prevent an external visual inspection, those areas of the cargo tank must be internally inspected. If internal visual inspection is precluded because the cargo tank is lined, coated, or designed so as to prevent access for internal inspection, the tank must be hydrostatically or pneumatically tested in accordance with 407(g)(1)(iv). Those items able to be externally inspected must be externally inspected and noted in the inspection report.

(2) The external visual inspection and testing must include at the minimum the following:

   (i) The tank shell and heads must be inspected for corroded or abraded areas, dents, distortions, defects in welds and any other conditions, including leakage, that might render the tank unsafe for transportation service;
   (ii) The piping, valves, and gaskets must be carefully inspected for corroded areas, defects in welds, and other conditions, including leakage, that render the tank unsafe for transportation service;
   (iii) All devices for tightening manhole covers must be operative and there must be no evidence of leakage at manhole covers or gaskets;
   (iv) All emergency devices and valves including self-closing stop valves, excess flow valves and remote closure devices must be free from corrosion, distortion, erosion and any external damage that will prevent safe operation. Remote closure devices and self-closing stop valves must be functioned to demonstrate proper operation;
   (v) Missing bolts, nuts and fusible links or elements must be replaced, and loose bolts and nuts must be tightened;
   (vi) All markings on the cargo tank required by parts 172, 178 and 180 of this subchapter must be legible;
   (vii) [Reserved]
   (viii) All major appurtenances and structural attachments on the cargo tank including, but not limited to, suspension system attachments, connecting structures, and those elements of the upper coupler (fifth wheel) assembly that can be inspected without dismantling the upper coupler (fifth wheel) assembly must be inspected for any corrosion or damage which might prevent safe operation;
   (ix) For cargo tanks transporting lading corrosive to the tank, areas covered by the upper coupler (fifth wheel) assembly must be inspected at least once in each two year period for corroded and abraded areas, dents, distortions, defects in welds, and any other condition that might render the tank unsafe for transportation service. The upper coupler (fifth wheel) assembly must be removed from the cargo tank for this inspection.

(3) All pressure relief valves must be externally inspected for any corrosion or damage which might prevent safe operation. All reclosing pressure relief valves on cargo tanks carrying lading corrosive to the valve must be removed from the cargo tank for inspection and testing. Each reclosing pressure relief valve required to be removed and tested must open at no less than the required set pressure no more than 110 percent of the required set pressure, and must reseat to a leaktight condition at no less than 90 percent of the start-to-discharge pressure or the pressure prescribed for the applicable cargo tank specification.

(4) Ring stiffeners or other appurtenances installed on cargo tanks constructed of mild steel or high-strength, low-alloy steel, that create air cavities adjacent to the tank shell that do not allow for external visual inspection must be thickness tested in accordance 407(i)(2) and (i)(3) at least once every 2 years. At least four symmetrically distributed readings must be taken to establish an average thickness for the ring stiffener or appurtenance. If any thickness reading is less than the average thickness by more than 10%, thickness testing in accordance with 407(i)(2) and (i)(3) must be conducted from the inside of the cargo tank on the area of the tank wall covered by the appurtenance or ring stiffener.

(5) Corroded or abraded areas of the cargo tank wall must be thickness tested in accordance with the procedures set forth in paragraphs (i)(2), (i)(3), (i)(5), and (i)(6) of this section.

(6) The gaskets on any full opening rear head must be:

   (i) Visually inspected for cracks or splits caused by weather or wear; and
   (ii) Replaced if cuts or cracks, which are likely to cause leakage, or are of a depth one-half inch or more, are found.

(7) The inspector must record the results of the external visual examination as specified in §180.417(b).

ACCEPTABLE RESULTS of TEST and INSPECTIONS
49 CFR, 180.411

(a) Corroded or abraded areas.

The minimum thickness may not be less than that prescribed in the applicable specifications.

(b) Dents, cuts, digs, and gouges.

(See CGA Pamphlet C-6 for evaluation procedures.)

(1) For dents at welds or that include a weld, the maximum allowable depth is ½ inch. For dents away from the welds, the maximum allowable depth is 1/10 of the greatest dimension of the dent, but in no case may the depth exceed one inch.

(2) The minimum thickness remaining beneath a cut, dig, or gouge may not be less than that prescribed in the applicable specification.

(c) Weld or structural defects.

Any cargo tank with a weld defect such as a crack, pinhole, or incomplete fusion, or a structural defect much be taken out of hazardous materials service until repaired.

(d) Leakage

All sources of leakage must be properly repaired prior to returning a tank to hazardous materials service.

(e) Relief valves.

Any pressure relief valve that fails to open and re-close at the prescribed pressure must be repaired or replaced.

(f) Liner integrity.

Any defect shown by the test must be properly repaired.

(g) Pressure test.

Any tank that fails to meet the acceptance criteria found in the individual specification that applies must be properly repaired.

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2 of 2